

# Description

## Baby in Car Alert

### CROSS REFERENCE TO RELATED APPLICATIONS

[0001] N/A

### COPYRIGHT STATEMENT

[0002] N/A

### FEDERAL RESEARCH STATEMENT

[0003] [N/A]

### APPENDIX DATA

[0004] N/A N/A N/A

### BACKGROUND OF INVENTION

[0005] It is my belief that my invention is best defined in "Class 340-Communications: Electric". Subclassifications "438 - Internal alarm or indicator responsive to a condition in the vehicle" and "500 - Condition responsive indicating system" seem the most appropriate sub classifications available.

[0006] Each year several infants and small children die of heat related illnesses after being left unattended in automobiles. The purpose of this invention is to provide an alert system that will address this problem.

## **SUMMARY OF INVENTION**

[0007] The "Baby in Car Alert" is designed to prevent the senseless death of infants and small children by alerting overtired or otherwise distracted caregivers that the child is in the car seat when the ignition key is in the "off" position. Hearing the alert will remind caregivers that they still have a matter (the child) to attend to prior to leaving the car.

[0008] Pressure switch activated the weight of the child when placed in the car seat turns the system on. The device is armed but dormant while the vehicle ignition key is in the "accessory" or "on" position. The device becomes active when the vehicle ignition is in the "off" position. Removing the child from the car seat turns the system off.

[0009] For convenience of the caregiver the pressure switch is plugged into the component box. This allows the caregiver to unplug the pressure switch wiring from the component box to temporarily turn the unit off or remove the car seat from the vehicle.

## **BRIEF DESCRIPTION OF DRAWINGS**

- [0010] Figure 1 – Drawing and identification of electrical components required to manufacture and operate the "Baby in Car Alert" system. Indication of pre-existing equipment in automobile that the alert system relies upon.
- [0011] Figure 2 – Drawing of "Baby in Car Alert" system and identification of illustrated parts.
- [0012] Figure 3 – Exploded view of "Baby in Car Alert" system and its placement in relationship to the car seat base and pad.

#### **BRIEF DESCRIPTION OF SEQUENCES**

- [0013] N/A

#### **DETAILED DESCRIPTION**

- [0014] Manufacture and usage of the system:
- [0015] A lever style pressure switch (Figure 1, S1) is utilized. The negative input is connected via wiring to a sound device/alert or buzzer (Figure 1, BZ1). The positive side of the pressure switch (Figure 1, S1) is wired into the 12VDC Relay Board (Figure 1, R1) NC input designation.
- [0016] The positive connection of the sound device is wired into the positive side of the unit's battery (9VDC or less) (Figure 1, V2). The negative connection on the unit's battery (Figure 1, V2) is wired into the 12VDC Relay Board (Figure 1, R1) C input designation.

[0017] The negative and positive wires of a standard Cigarette lighter adapter/DC plug adapter (Figure 1, A1) are fed into their respective designations within the 12VDC Relay Board (Figure 1, R1).

[0018] The Cigarette lighter adapter (Figure 1, A1) is plugged into the vehicle's pre-existing Cigarette lighter socket (Figure 1, IN1). The vehicle's pre-existing 12VDC Battery (Figure 1, V1) provides power to the Cigarette lighter socket.

[0019] Once the electrical components have been assembled the pressure switch (Figure 1, S1) is housed in a hermetically sealed plastic sleeve (Figure 3, 3). Double sided tape allows the consumer to securely attach the pressure switch to the car seat base (Figure 3, 5). The car seat pad (Figure 3, 4) is then re-secured to the car seat base.

[0020] The component box (Figure 2, 2) which houses the battery (Figure 1, V2), the sound device (Figure 1, BZ1) and the relay board (Figure 1, R1) is placed within easy reach of the vehicle's driver, then plugged into the vehicle's pre-existing cigarette lighter socket (Figure 1, IN1) and remains this way.

[0021] When the infant/child is placed into the car seat the pressure switch (Figure 3, 3) is in the "on" position but lacks

power. Upon starting the vehicle the caregiver inserts the pressure switch plug into the component box. The unit is now fully active but the sound device is dormant.

[0022] Once the vehicle ignition key is placed in the "off" position the relay switch (Figure 1, R1) routes power from the unit's battery (Figure1, V2) to the sound device (Figure 1, BZ1) making the sound device active. The sound emitted alerts the driver that the child is still in the car seat. Removing the child from the car seat turns the unit off, while unplugging the pressure switch (Figure 2, 3) from the component box (Figure 2, 2) disables the unit.

#### **PROGRAM LISTING DEPOSIT**

[0023] N/A